USC
UNIVERSITY
OF SOUTHERN
CALIFORNIA

November 17, 2011

To: Climate Change Program
Attention: Elissa Lynn
Department of Water Resources
P.O. Box 94236-0001
Sacramento, CA 94236-0001

Dana and David Dornsife College of Letters, Arts and Sciences

Department of Earth Sciences

Statement of Qualifications for Dr. Lowell Stott

Dear Elissa,

I wish to express my interest in participating in the Climate Change Technical Advisory Group.

I am professor of Earth Sciences at the University of Southern California. Over the past 22 years I have conducted climate change research and taught climate science at both the undergraduate and graduate level. My research program is dedicated to uncovering the factors that influence climate variability and change across a wide range of temporal and spatial scales.

I am currently leading an interdisciplinary investigation that seeks to identify what factors were responsible for the recurrence of decadal-length drought in the southwestern US over the past several centuries. This project brings together observational specialists and climate modeling specialists and leverages an archive of paleoclimate data about past droughts. We are utilizing a suite of state of the art global climate models and regional climate models to conduct experiments that attempt to replicate past droughts and thereby develop an ability to anticipate and eventually predict future drought.

The University of Southern California hosts the High Performance Computer Center cluster we use for the computer simulations. We are using a suite of state-of-the-art global and regional models. This project is also training 5 post-doctoral fellows and several graduate students. This is a collaborative effort and quite unique in its interdisciplinary formulation. We anticipate rapid advances in our understanding as a result of this interdisciplinary approach. The students and post-doctoral fellows are gaining special training and experience that will better prepare them for climate research challenges in the 21st century.

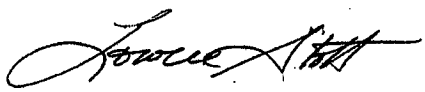
I am also conducting research that is supported by the National Ocean and Atmospheric Administration (NOAA) to study how ocean and atmospheric variability on interannual to decadal time scales influences sources of moisture that falls as precipitation along the west coast of North America. We are using the stable isotopic composition of precipitation as a 'finger-print' to identify contributions of tropical and extratropical moisture. Tropical and extratropical moisture differ in isotopic composition and this difference allows us to study how and why the amount of moisture from these regions varies in time and space. We are conducting measurements of precipitation from multiple stations and this includes the network of North American Depositional Program (NADP) sites along the west coast. We combine these observational results with climate model experiments that allow us to identify what governs the convergence of tropical and extratropical moisture over the west coast. This is a particularly valuable technique because the isotopic signature of moisture is

University of
Southern California
Los Angeles,
California 90089-0740
Tel: 213 740 6106
Fax: 213 740 8801
earthsci@usc.edu
dornsife.usc.edu/earth

transferred to soil moisture, lakes and ice. It is also imprinted on the isotopic composition of paleo-archives such as tree cellulose. The isotopic composition in these archives can be measured and by doing so, we reconstruct the history of hydroclimate variability for times in the past, particularly during drought. We believe this is particularly important research because global climate models used to simulate 21st century climate response to rising greenhouse gases as part of the Intergovernmental Panel on Climate Change (IPCC) AR4 report, project northward shift in winter season storm tracks along the west coast as temperatures rise. Such a response in storm track behavior would affect the isotopic composition of moisture and we can monitor this as a means of evaluating how the climate system is responding today to rising temperatures and how it responded in the past to rising temperatures.

I have served on many national and international planning and organizational committees over the years. I am particularly interested in working with DWR and other specialists in a collaborative and interdisciplinary effort to inform our understanding of climate variability and change in California.

Thank you,



Lowell Stott

Curriculum Vita of Lowell Stott
Department of Earth Sciences Phone: (213) 740-5120;
University of Southern California FAX: (213) 740-8801
Los Angeles, CA 90089-0740 E-mail: Stott@usc.edu
Citizenship: US.

EDUCATION:
PhD. 1989 The Graduate School of Oceanography, University of Rhode Island, Oceanography.
MS 1985, BS 1982 Ohio State University, Geology

EMPLOYMENT:
2003-present Professor. Department of Earth Sciences, University of Southern California, Los Angeles.
1996-2003. Associate Professor. Department of Earth Sciences, University of Southern California, Los Angeles.
1989-1996. Assistant Professor. Department of Earth Sciences, University of Southern California, Los Angeles.
1987-89 Post Graduate Research Geologist. Marine Science Institute, University of California, Santa Barbara.
1985-87 Graduate Research Associate. Graduate School of Oceanography, University of Rhode Island.
1983-85 Graduate Research Associate. Institute of Polar Studies, Ohio State University

AWARDS

2007 World Affairs Council Distinguished Lecturer
1985 Antarctic Service Medal, National Science Foundation
1985 Department Service Award, Dept. of Geological Sciences, Ohio State University
1982 Senior Thesis Award

SYNERGISTIC ACTIVITIES

1995-1997 Hancock Marine Institute Executive Committee, University of Southern California
1994- 1995 Vice-Chairman Stable Isotope Research Group, SEPM (Society of Sedimentary Geology)
1994-1995 National Science Foundation, Atmospheric Sciences-Steering Committee
Abrupt Climate Change Initiative
1993-1996 United States Scientific Advisory Committee to the Ocean Drilling Program (USSAC)
1993-1996 American Geophysical Union Paleoceanography Committee
2002-2007 National Science Foundation Ocean Sciences Steering Committee
Marine Aspects of Earth System History (MESH)
2004-2007 Chair, National Science Foundation Earth System History Science Steering Committee

COMMUNITY SERVICE
1. Convenor, JOI, USSAC conference on Paleogene paleoceanography, Lake Arrowhead Conference Center 1990. 40 national and international scientists attended
2. Convenor, Cushman Symposium, Geological Society Am. Annual Meeting
Events near the Paleocene/Eocene Boundary. 1991
3. Participant, International Geological Correlation Project # 308. 1990-1997
Scientific program to identify criteria for recognition of a Paleocene/Eocene stratotype section.
4. Organized and hosted Department of Geological Sciences Open House for
Environmental Geology 1992.
5. Established the Earth Science Paleoenvironmental Seminar, 1993. This is now a weekly seminar for students and faculty to discuss current research and hear from invited speakers.

6. Participant, Center to Advance Pre-college Science Education (CAPSE). 1994. Summer program which designs new ways to incorporate science into elementary school education in Los Angeles City Schools.
7. National Science Foundation (NSF) proposal review panels (1994, 1995 and 2002, 2010).
8. Member of MESH Science Steering Committee (Marine Aspects of Earth System History). This panel represents the marine community in on-going global change initiatives sponsored by the NSF. 2000- 2005
9. Convenor: Special Session on Holocene climate change at 1997 American Geophysical Union annual Meeting.
10. US Scientific Advisory Committee to the Ocean Drilling Program. 1993-1996
11. Convenor: Special Session on climate of the last 2000 years at the 2002 American Geophysical Union annual meeting.
12. Convenor: Workshop on Tropical Climate Variability, USC 2003.
13. Chair- Marine Aspects of Earth System History (MESH) Science Committee 2001-2007.
14. National Ocean and Atmospheric Review Committee, 2004 NOAA- Paleoclimatology Program.
15. External Review committee-University of California, Riverside, Department of Geological Sciences 2006.
16. Chair National Climate Science Working Group responsible for writing science plan for the NSF-Sponsored Climate Change Research Initiative- Paleo Perspectives on Climate Change (P2C2) 2006-2007.
17. Chair Faculty Search Committee for a Senior Climate Scientist at USC 2006-2007.
18. Invited Lecturer 2007 World Affairs Council
19. Committee of Visitors, National Science Foundation, Division of Atmospheric and GeoSpace Science 2010
20. National Ocean and Atmospheric NOAA Review Committee, Climate Change and Monitoring Program, 2010
21. European Science Foundation 2006 Expert External Reviewer

2010 Expert External Review Panel for EuroMARC Program

22. Intergovernmental Panel on Climate Change (IPCC) 2006 Contributing Editor, Paleoclimate Chapter
23. External Review Committee
    Department of Earth Science, University of California, Riverside 2006
24. Organizer NSF-sponsored Workshop, Benefit and Practicality of the Establishment of a Virtual Climate Institute on the West Coast; Los Angeles, California; Summer 2008
25. Organizer and Lead PI for an NSF Science and Technology Center: A Center for Regional Decadal Climate Predictions (CRDCP), 2009

MENTORING

Post-Doctoral Associates
Niklas Buenning 2010-
Kevin Cannariato 2005-2007
PhD Advisee
Ashish Sinha Ph.D. 1991-1997
Reetta Saiku Ph.D. 2003-2009
Max Berklehamer PhD., 2005-2010
Deborah Khider, PhD., 2006-2011
Justin Reuter, MS, 2006-2009, PhD 2010-
Mertcan Ozbakir, PhD 2010-
MS Advisee
Carol Tang M.S 1990-1993
Michael Neumann M.S. 1995-1998

Paola Gomez M.S. 2000-2004
Jennifer Holsten M.S. 2000-2003
Andres Martinez M.S. 2004-2007
Patrick Horan, MS., 2006-2010
Committee Member
Hung-Chun Li PhD 1993-1998
Lei Wang PhD 1993
Yuhong Tang PhD 1994-1996
Yi Zhou Ph.D. 1995
Rebecca Robinson M.S. 1995-1998
Dorte Paulsen MS. 1997-2000
Jian Peng Ph.D. 2001-2005
Maria Prokopenko Ph.D. 2001-2005
Francesca Staines-Urias MS. 2001-2006
Isabel Romero Ph.D. 2004-2006
(marine Bio)
Vincent Todd Ph.D. 2004-2008
Peter Countway Ph.D. 2004-2008
(marine Bio)
Miranda Hayman Ph.D 2006-2009
(Chemistry)

SEA AND FIELD EXPERIENCE

2001-2010 Field Programs in California, Caribbean, Indonesia, Iraq, Peru, SE. Asia
2001 Chief Scientist R/V New Horizon, California Margin
1995 Co-Chief Scientist R/V Ewing, California Margin
1990 R/V Atlantis II, California Borderlands
1986-87 Joides Resolution Leg 113, Weddell Sea, Antarctica
1984 R/V Hero, Southeast Pacific, Chile Margin
1983-84 Reedy Glacier Expedition, Transantarctic Mts., Antarctica
1983 R/V Hero, Southeast Pacific, Chile Margin

PUBLICATIONS

Refereed Papers

in press Berkelhammer, M., **Stott**, L., Yoshimura, K., Sinha, A., and K. Johnson. Synoptic and mesoscale controls on the isotopic composition of precipitation in the western United States, ***Climate Dynamics***.

2011 **Stott**, L. and Timmermann, A., Hypothesized Link between Glacial/Interglacial Atmospheric CO_2 Cycles and Storage/Release CO_2-Rich Fluids from the Deep Sea. **AGU Geophysical Monograph Series:** ***Understanding the Causes, mechanisms and extent of the Abrupt Climate Change.*** pdf

2011 Khider, D., L. D. **Stott**, L., Emile-Geay, J., Thunell, R. and Hammond, D., Assessing El Niño Southern Oscillation Variability during the Past Millennium, ***Paleoceanography***, doi: 10.1029/2011PA002139. pdf

2011 Meister, P., Reyes, C., Beaumont, W., Rincon, M., Collins, L., Berelson, W., **Stott**, L., Corsetti, F., and Nealson, K. H., 2011, Calcium and magnesium-limited dolomite precipitation at Deep Springs Lake, California: ***Sedimentology***, p. no-no.

2011 Sinha, A., **Stott**, L., Berkelhammer, M., Cheng, H., Edwards, R.L., Buckley, B., Aldenderfer, M., Mudelsee, M. Global Context for Megadroughts in Monsoon Asia during the Past Millennium. ***Quaternary Science Reviews***. Volume 30, Issues 1-2, January 2011, Pages 47-62

2010 Magana, A. L., Southon, J. R., Kennett, J. P., Roark, E. B., Sarnthein, M. and **Stott.** L. D., Resolving the cause of large differences between deglacial benthic foraminifera radiocarbon measurements in Santa Barbara Basin, ***Paleoceanography***, 115, PA4102, doi: 10.1029/2010PA002011.

2010 Newton, A., Thunell, R., **Stott**, L. (2010) Changes in the Indonesian Throughflow during the Past 2,000 Years. ***Geology***.39; no. 1; p. 63–66; doi: 10.1130/G31421.1

2010 **Stott**, L. D. No signs of Southern Ocean CO_2. ***Nature Geoscience*** 3, pp. 153-154, doi: 10.1038/ngeo815.

2010 **Stott**, L. D., The Oceanic Climate Capacitor. In Andrew Miall (Ed.), 1. ***Geoscience Canada.***

2009 Reuter, J., **Stott**, L., Khider, D., Sinha, A., Cheng, H. and Edwards, R. L., A new perspective on hydroclimate variability in northern South America during the Little Ice Age. ***Geophyscial Research Letters***. doi:10.1029/2009GL041051, pdf.

2009 Saikku, R., **Stott**, L., and Thunell, R., A bi-polar signal recorded in the western tropical Pacific: Northern and Southern Hemisphere climate records from the Pacific warm pool during the last Ice Age. ***Quaternary Science Reviews*** pdf

2009 Berkelhammer, M., and **Stott**, L. D., Modeled and observed intra-ring $\delta^{18}O$ cycles within late Holocene Bristlecone Pine tree samples. ***Chemical Geology*** **264,** 13-23.pdf

2009 **Stott**, L., Southon, J., Timmermann, A., and Koutavas, A., Radiocarbon age anomaly at intermediate water depth in the Pacific Ocean during the last deglaciation. ***Paleoceanography*** **24**.PA2223, doi: 10.1029/2008PA001690. pdf

2009 Timmermann, A., Timm, O., **Stott**, L., and & Menviel-Hessler, L., The roles of CO_2 and orbital forcing in driving southern hemispheric temperature variations during the last 21,000 year. ***Journal of Climate*** **22,** 1626-1640.pdf

2008 Berkelhammer, M., and **Stott**, L., Recent and dramatic changes in Pacific storm trajectories recorded in $\delta^{18}O$ from Bristlecone Pine tree-ring cellulose. ***Geochemistry, Geophysics, Geosystems*** 9,4, Q04008, doi:10.1029/2007GC001803 pdf

2007 Sinha, A., Cannariato, K., **Stott** , L., Cheng, H., Edwards, R.L., Yadava, R. Ramesh, M. G., and Singh, I. B., A 900-year (600 to 1500 A.D.) record of the Indian Summer Monsoon precipitation from the core monsoon zone of India. ***Geophysical Research Letters,* 34, L16707 doi:10.1029/2007GL030431,** pdf

2007 **Stott**, L., Timmerman, A., Thunell, R., Southern Hemisphere and Deep-Sea Warming Led Deglacial Atmospheric CO_2 Rise and Tropical Warming, ***Science***, 318, 435-438.

2007 Graham, N. E., Hughes, M. K., Ammann C. M., Cobb, K. M., Hoerling M. P., Kennett D. J., Kennett JP, Rein, B., **Stott, L.**, Wigand PE, Xu T.Y. Tropical Pacific - mid-latitude teleconnections in medieval times. ***Climatic Change,*** 83 (1-2): 241-285.

2007 **Stott,** L. D., Comment on "Anomalous radiocarbon ages for foraminifera shells" by W. Broecker et al.: A correction to the western tropical Pacific MD9821-81 record. ***Paleoceanography***, 22 (1).

2006 Barker, S, Broecker, W., Clark, E., Hajdas, I., Bonani, G., Moreno, E., **Stott,** L.Radiocarbon age of deglacial-age water from 2.8 km depth in the Western Equatorial Pacific, ***Geochemistry, Geophysics, Geosystems***

2006 Lund, S., **Stott,** L. D., Schwartz M., Thunell, R., Chen, A., Holocene paleomagnetic secular variation records from the western Equatorial Pacific Ocean. ***Earth and Planetary Science Letters***, 246, 381–392.

2006 Newton, A., Thunell, R. and **Stott,** L. Climate and hydrographic Pacific warm pool during the last millennium, ***Geophysical Research Letters.***, 33, L19710, doi: 10.1029/2006GL027234, 2006

2006 Prokopenko,M. G., Hammond, D. E., Spivack, A., and **Stott,** L. Impact of Long-Term diagenesis on $\delta^{15}N$ of Organic Matter in Marine Sediments: Sites 12227 and 12301. **In,** Jørgensen, B.B., D'Hondt, S.L., and Miller, D.J. (Eds.) ***Proceedings of the Ocean Drilling Program, Scientific Results Volume*** 201

2006 Prokopenko M. G., Hammond D. E., Berelson, W. M., Bernhard J. M., **Stott,** L., Douglas, R. Nitrogen cycling in the sediments of Santa Barbara basin and Eastern Subtropical North Pacific: Nitrogen isotopes, diagenesis and possible chemosymbiosis between two lithotrophs (Thioploca and Anammox) - "riding on a glider" ***Earth and Planetary Letters***, 242 (1-2): 186-204.

2005 Sinha, A., Cannariato, K. G., **Stott,** L. D., Li, H.-C., You, C.-F., Cheng, H., Edwards, R. L., and Singh, I. B., 2005, Variability of Southwest Indian summer monsoon precipitation during the Bolling-Allerod: ***Geology***, v. 33, p. 813-816.

2004 **Stott,** L., Cannariato, K., Thunell, R., Haug, G.H., Koutavas, A., and Lund, S. Decline of surface temperature and salinity in the western tropical Pacific Ocean in the Holocene epoch: ***Nature***, v. 431, p. 56-59.

2004 Broecker, Wallace, Barker, S., Clark, E., Hajdas, I, Bonani, G. and **Stott,** L. Ventilation of the Glacial Deep Pacific Ocean, ***Science***, 306, 1169-1172.

2004 Holsten, J., **Stott,** L., and Berelson, W., Reconstructing Benthic Carbon Oxidation Rates Using $\delta^{13}C$ of Benthic Foraminifers. ***Marine Micropaleontology*** 53 (2004) 117–132

2004 Cannariato, K., and **Stott,** L. D. High-resolution bulk organic carbon $\delta^{13}C$ values argue against brief catastrophic releases of sedimentary methane to the surface waters of Santa Barbara Basin ***Geochemistry, Geophysics, Geosystems*** 5(5), doi: 10.1029/2003GC000 600

2004 Rosenthal, Y. et al., Inter-laboratory comparison study of Mg/Ca and Sr/Ca measurements in planktonic foraminifera for paleoceanography research. ***Geochemistry, Geophysics, Geosystems*** 5(4) doi:10.1029/2003GC000650

2003 Aubry, M.-P., Berggren, W.A., van Couvering, J.A., Ali, J., Brinkhuis, H., Cramer, B., Kent, D.V., Swisher, III, C.C., Gingerich, P.R., Heilmann-Clausen, C., Knox, R.W.O'B., Laga, P., Steurbaut, E., **Stott, L.D.**, and Thiry, M., 2003. Chronostratigraphic Terminology at the Paleocene-Eocene Boundary. In: S.L. Wing, P.R. Gingerich, B. Schmitz and E. Thomas (eds). Causes and Consequences of Globally Warm Climates in the Early Paleocene. ***Geological Society of America (GSA) Special Paper*** **369**, p. 551-566.

2003 Berelson, W. and **Stott,** L. D. Productivity and Organic Carbon Rain to the California Margin Sea Floor: Modern and Paleoceanographic Perspectives, ***Paleoceanography*** 18,

2003 Leavitt, S. W. S. B. Idso, B. A. Kimball, J. M. Burns, A. Sinha, L. **Stott.** The effect of long-term atmospheric CO_2 enrichment on the intrinsic water-use efficiency of sour orange trees. ***Chemosphere***, 50, 217-222.

2003 Berelson, W. and **Stott**, L. D. Productivity and Organic Carbon Rain to the California Margin Sea Floor: Modern and Paleoceanographic Perspectives, ***Paleoceanography*** 18,

2003 Visser, K, Thunell, R., and **Stott**, L. Magnitude and timing of temperature change in the Indo-Pacific warm pool during deglaciation. ***Nature***, 421, 152-155.

2002 **Stott**, L. D., Poulsen, C., Lund, S., and Thunell, R., Super ENSO and Global Climate Oscillations at Millennial Time Scales, ***Science*** 297, 222-226.

2002 **Stott**, L. D. The influence of diet on the $\delta^{13}C$ of shell carbon in the pulmonate snail *Helix aspersa*. ***Earth and Planetary Science Letters*** 195, 249-259.

2002 **Stott**, L. D., Bunn, T., Prokopenko, M., Mahn, C., Gieskes, J. and Bernhard, J. Does the oxidation of methane leave an isotopic fingerprint in the geologic record? ***Geochemistry, Geophysics, Geosystems.*** 3(2), 10.1029/2001GC000196.

2001 Herbert, T. D., Schuffert, J. D., Andreasen, D., Heusser, L., Lyle, M., Mix, A., Ravelo, A.C., **Stott**, L.D., and Herguera, J.C. Collapse of the California Current during glacial maxima linked to climate change on land. ***Science***, 293: 71-76.

2000 **Stott**, L. D. Berelson, W., Gorsline, D., Douglas, R. Increased dissolved oxygen in Pacific Intermediate waters due to lower rates of carbon oxidation in sediments. ***Nature***407, 367-370.

2000 **Stott**, L.D., Neumann, M., and Hammond, D. Intermediate water ventilation on the northeastern Pacific margin during the late Pleistocene inferred from benthic foraminiferal $\delta^{13}C$. ***Paleoceanography***. 15 (2), 161-169.

2000 Li, H-C., Bischoff, J. L., Ku, T-L., Lund, S. P., and **Stott**. L. D. Climate variability in East Central California during the past 1000 years: High resolution geochemical and isotopic records from Owens Lake sediments, ***Quaternary Research*** 54, 189-197.

2000 Broecker, W. S., Clark, E., Lynch-Steiglitz, J., Beck, W., and **Stott**, L. D. Late Glacial diatom accumulation at 9°S in the Indian Ocean. ***Paleoceanography***. 15(3), 348 352.

2000 Cojan, I., Moreau, M. G., and **Stott**, L. D. Stable carbon isotope stratigraphy of the Paleogene pedogenic series of southern France as a basis for continental-marine correlation ***Geology***. 28(3) 259-262.

1998 Li, H.-C. H.-C. Li, Ku, T.-L. **Stott,** L. D. and Chen, W.-J. Applications of interannual-resolution stable isotope records of speleothems: Climatic changes in Beijing and Tianjin, China during the past 500 years — the $\delta^{18}O$ record. *Science in China (Series D)*, 41 (4): 362-368. **(SCI Journal).**

1998 Li, H.-C., Ku, T.-L. Bischoff, J. L. and **Stott**, L. D. Climatic and hydrologic conditions in Owens Basin, California between 45 and 145 Ka as reconstructed from the high-resolution stable isotope records. p. 66-81. In: J. L. Bischoff (ed.). The Last Interglaciation at Owens Lake, California: Core OL-92. ***U.S.Geological Survey, Open-File Report*** 98-132, 186p.

1997 Li, H-C, **Stott**, L. D. and Hammond, D. E. Temperature and salinity effects on ^{18}O fractionation for rapidly precipitated carbonates: Laboratory experiments with alkaline lake water. ***Episodes*** 20: 193-198.

1997 Li, H-C, Ku, T-L., and **Stott**, L. D. Stable isotope studies on Mono Lake (California)-I: $\delta^{18}O$ in Lake Sediments as proxy for climatic change during the last 150 years. ***Limnology and Oceanography***.

1997 Li, H.-C. Ku, T.-L., **Stott**, L. D. and Anderson, R. F. Stable isotope studies on Mono Lake (California) -- I: $\delta^{18}O$ in lake sediments as proxy for climatic change during the last 150 years. ***Limnology and Oceanography***, 42 (2): 230-238.

1996 **Stott**, L.D. Hayden, T.P., Griffith, J. Benthic foraminifera at the Los Angeles County Whites Point Outfall revisited. ***Journal of Foraminiferal Research***. 26:357-368

1996 **Stott**, L.D., Sinha, A., Thiry, M. Aubry, M.-P., Berggren, W. Global $\delta^{13}C$ changes across the Paleocene/Eocene boundary: Criteria for terrestrial-marine correlations, ***Special Publication of the Geological Society of London***381-399.

1996 **Stott**, L.D., and Tang, C.M. Reassessment of Tropical sea surface $\delta^{18}O$ paleotemperatures, ***Paleoceanography***, 11: 37-56.

1996 Aubry, M.-P., Berggren, W. A., **Stott**, L. D. and Sinha, A., The upper Paleocene-lower Eocene stratigraphic record and the Paleocene/Eocene boundary carbon isotope excursion. In: Knox, R. (ed.) Early Paleogene correlation in NW Europe. Correlation of the Early Paleogene in Northwest Europe. ***Special Publication of the Geological Society of London***., pp. 353-380.

1996 Mortyn, P. G., Thunell, R. C., Anderson, D. M, **Stott**, L. D., and Le, J. Sea surface temperature changes in the southern California Borderlands during the last glacial-interglacial cycle. ***Paleoceanography***. 11:415-430.

1996 Sinha, A., Aubry, M.-P., **Stott**, L. D., Thiry, M. and Berggren, W. A. 1996. Chemostratigraphy of the "lower" Sparnacian deposits (Argiles plastiques bariolees) of the Paris Basin. ***Israel Journal of Earth Sciences***, Special volume on Paleocene/Eocene boundary events. 44:223-237.

1995 Kennett, J. K., and **Stott**, L. D., Terminal Paleocene mass extinction in the deep sea: association with global warming, (in) *The Effects of Past Global Change on Life*, (eds) Stanley, S., Kennett, J.P., and Knoll, A., ***National Research Council, National Academy Press***, 94-106.

1995 Hagadorn, J. W., **Stott**, L. D., Sinha, A., and Rincon, M., Geochemical and sedimentologic variations in inter-annually laminated sediments from Santa Monica Basin, ***Marine Geology***, 125, 111-131.

1994 Sinha, A. and **Stott**, L. D., New atmospheric pCO_2 estimates from paleosols during the late Paleocene/early Eocene global warming interval, ***Journal of Global and Planetary Change***. 9:297-307.

1994 Zachos, J. C., **Stott**, L. D., and Lohmann, K. C., Evolution of early Cenozoic marine temperatures, ***Paleoceanography*** , 9:353-387.

1993 Tang, C. M., and **Stott**, L. D., Seasonal salinity changes during Mediterranean sapropel deposition 9,000 years B.P.: Evidence from isotopic analyses of individual planktonic foraminifera, ***Paleoceanography*** , 8:473-494.

1993 Hagadorn, J. W., Flocks, J. G., **Stott**, L. D., and Gorsline, D. S., Micro-sampling of sediment cores: A simple method to obtain high resolution historical sedimentary records, ***Journal of Sedimentary Petrology*** , 62: 755-758

1992 **Stott**, L. D., Higher temperatures and lower oceanic pCO2: A climate enigma at the end of the Paleocene Epoch, ***Paleoceanography***7: 395-404.

1991 Herguera, J.C., **Stott**, L., and Berger, W. H., Glacial deep water properties in the west-equatorial Pacific: Bathyal thermocline near 2000m depth. ***Marine Geology***, 100:201-206.

1991 Kennett, J. P., and **Stott**, L. D., Abrupt deep-sea warming, palaeoceanographic changes and benthic extinctions at the end of the Palaeocene, ***Nature***, 353:225-229. pdf

1990 Kennett, J. P. and **Stott**, L. D., Proteus and Proto-Oceanus: Paleogene oceans as revealed from Antarctic stable isotopic results. In Barker, P. F., Kennett, J. P., et al., ***Proc. ODP, Scientific Results***, 113: College Station, TX (Ocean Drilling Progam), 865-880.

1990 **Stott**, L. D. and Kennett, J. P., Shackleton, N. S., and Corfield, R. M., The evolution of Antarctic surface waters during the Paleogene: Inferences from the stable isotopic composition of planktonic foraminifers, In Barker, P. F., Kennett, J. P., et al., ***Proc. ODP, Scientific Results***, 113: College Station, TX (Ocean Drilling Program), 849-863.

1990 **Stott**, L. D. and Kennett, J. P. Antarctic Paleogene planktonic foraminifer biostratigraphy, In Barker, P. F., Kennett, J. P., et al., *Proc.* ***ODP, Scientific Results***, 113: College Station, TX (Ocean Drilling Program), 549-569.

1990 **Stott**, L. D. and Kennett, J. P., The Paleoceanographic and paleoclimatic signature of the Cretaceous/Paleogene boundary in the Antarctic, In Barker, P. F., Kennett, J. P., et al., ***Proc. ODP, Scientific Results***, 113: College Station, TX (Ocean Drilling Program), 829-848.

1989 **Stott**, L. D. and Kennett, J.P., New constraints on early Tertiary palaeoproductivity from carbon isotopes in foraminifera. ***Nature*** 342(6249): 526-529. pdf

1989 **Stott**, L. D. and Webb, P. N., The *Neogloboquadrina continuosa* last appearance datum level in the South Pacific, ***Micropaleontology*** 35 (1), 63-71.

1989 Hess, J., **Stott**, L. D., Bender, M., Schilling, J.-G., Diachroneity in the Oligocene marine fossil record: High resolution age assessments using Sr isotopes, ***Paleoceanography*** 4 (6), 655-680.

1988 Barker, P. F., Kennett, J. P., et al., Weddell Sea Palaeoceanography: Preliminary Results of ODP Leg 113, ***Palaeogeography, Palaeoclimatology, Palaeoecology***, 67, 75-102.

1984 Webb, P. N., Harwood, D. M., McKelvey, B. C., Mercer, J. H., **Stott**, L. D., Cenozoic marine sedimentation and ice volume variation on the East Antarctic craton, ***Geology***, 12, 287-291.

Non Refereed Papers

1984 DeVries, T. and **Stott**, L.D. Neogene fossiliferous deposits in Southern Chile, ***Antarctic Journal of the United States,*** 29:12-13.

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